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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------------|-------------|----------------------|-------------------------|------------------|
| 10/645,867 | 08/19/2003 | Troy Erik Olson | 8473.8.6.1 | 7671 |
| 22859 | 7590 | 04/21/2006 | EXAMINER | |
| INTELLECTUAL PROPERTY GROUP | | | BLANKENSHIP, GREGORY A | |
| FREDRIKSON & BYRON, P.A. | | | | |
| 200 SOUTH SIXTH STREET | | | ART UNIT | PAPER NUMBER |
| SUITE 4000 | | | 3612 | |
| MINNEAPOLIS, MN 55402 | | | DATE MAILED: 04/21/2006 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|------------------|------------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 10/645,867 | OLSON, TROY ERIK |
| | Examiner | Art Unit |
| | Greg Blankenship | 3612 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on RCE filed 3/27/2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-5,7-14 and 20-35 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) 1-5,7-14,20-30 and 35 is/are allowed.
 6) Claim(s) 31-34 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 8/19/2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

| | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 31-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sugawara et al. (5,829,219) in view of Miyazaki et al. (4,883,310).

Sugawara et al. disclose a vehicle roof frame comprising side frame members (12) and cross members (14). The side frame members (12) have protrusions (15) that have an upper portion with a corrugated configuration. The cross members (14) have corrugated end portions (23) that receive the protrusions (15). The end section of the cross members (14) and the upper portion of the protrusions (15) have matching shapes that align. The cross members and the protrusions are connected together by fasteners, beads of welding.

However, Sugawara et al. do not disclose the fasteners to be releasable and reattachable.

Miyazaki et al. teach connecting a cross member (25) to a protrusion (39) of the side frame member (23) by releasable and reattachable fasteners, bolts (47,63) and nuts.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to connect the cross member end portions to the protrusions, both of Sugawara et al., with bolts and nuts, as taught by Miyazaki et al., to provide a releasable and reattachable connection to increase assembling efficiency, improve appearance, and well suited for manufacture and assembly using robots.

Allowable Subject Matter

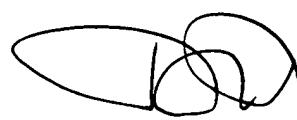
3. Claims 1-5, 7-14, 20-30, and 35 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greg Blankenship whose telephone number is 571-272-6656.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Dayoan can be reached on 571-272-6659. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gab
April 17, 2006



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4/17/06

D. GLENN DAYOAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600